
Vivitar®

V3650 User Manual



English

NOTICE

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference, and
This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

READ THIS FIRST

Trademark Information

- Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.
- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Computer, Inc.
- SD™, PhotoSuite and PhotoVista are trademarks.
- Other names and products may be trademarks or registered trademarks of their respective owners.

Product Information

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User's Manual is a general reference guide for the product.
- The product and accessories that come with your ViviCam 3650 may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
- The manufacturer assumes no liability for any errors or discrepancies in this user's manual.
- For user manual and driver updates, refer to our website or contact your dealer.

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FOR YOUR SAFETY

Warnings

- Do not use the camera if any foreign objects have entered the camera. Turn the camera off, remove the batteries. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electrical shock.

 - Do not place the camera in an unstable location such as on a wobbly table or sloping surface where the camera may fall or tip over and cause injury. If the camera has been dropped or damaged, turn the camera off. Contact your dealer or authorized service facility. Do not continue to use the camera as this may cause a fire or an electrical shock.

 - **WARNING:** Handling the USB on this product may expose you to lead, a chemical known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.*
-

FOR YOUR SAFETY

Warnings

- Do not attempt to modify this camera. Do not remove the camera casing. This may cause a fire or an electrical shock. Internal inspection and repairs should only be carried out by an authorized service facility.
- Never operate this camera in any way while driving a vehicle. This may cause a traffic accident.
- Do not cover or wrap the camera with a cloth. This may cause heat to build up, distort the case and cause a fire. Always use the camera and its accessories in well-ventilated locations.
- Do not move the camera while it is switched on. Ensure that any connector cords or cables to other devices are disconnected before moving the camera. Failure to do so may damage the cords or cables and cause a fire or an electrical shock.

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INTRODUCTION

Overview

Your new ViviCam 3650 delivers high quality, 1600 x 1200 resolution images using a 2.0 Megapixel sensor. An auto-flash sensor automatically detects the shooting (lighting) conditions and determines whether the flash should be used. This feature helps ensure that your images turn out right.

Internal (built-in) memory allows you to capture and store images without the immediate need for an additional memory card. However, you may wish to expand the memory capacity by using an external memory card.

In addition to still images, you can record short videos by using the movie function.

Images you have captured can be downloaded to your computer using the USB cable (A USB driver is required for Win 98). You can enhance and retouch your images on your computer by using the provided editing software, or image editing software you may already own. You may share your images with your friends via e-mail, in a report, or on a website.

Package Contents

Carefully unpack your ViviCam 3650 and ensure that you have the following items. In the event that any item is missing or if you find any mismatch or damage, promptly contact to your dealer.

- Digital Camera
- User's Manual
- USB Cable
- Camera Strap
- Software CD-ROM
- Camera Pouch

Optional Accessories

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- 2 AA Batteries

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Note:

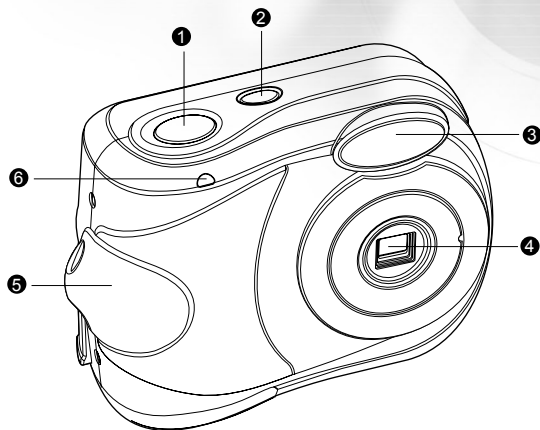
- The accessories that come with your ViviCam 3650 may be different from those described in this manual due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, memory cards, cables, carrying cases/pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.

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COMPONENTS GUIDE

Front View



1. Shutter button

2. Power button

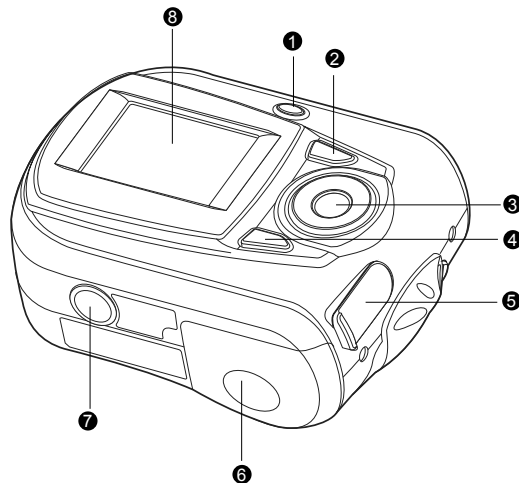
3. Flash

4. Lens

5. Strap eyelet

6. Self-timer LED

Rear view



1. LED indicator

2. MODE button

3. Multi-Selector Control

4.  MENU button

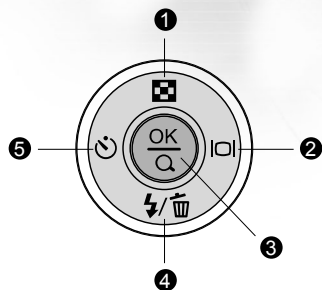
5. USB connector

6. Battery/SD card cover

7. Tripod socket

8. LCD monitor

Multi-Selector Control



1. ▲ Arrow button (Up)

Thumbnail button

2. ► Arrow button (Right)

Display button

3. Ⓞ OK button

Digital zoom button

4. ▼ Arrow button (Down)

Flash button

Delete button

5. ◀ Arrow button (Left)

Self-timer

LED Indicators

Indicator	Status	Description/Activity	Sound
LED indicator	Solid red	The ViviCam 3650 is powering up	No
LED indicator	Solid green	The ViviCam 3650 is powered and ready	Yes *(1)
LED indicator	Blinking red	Camera error	Yes *(3)
LED indicator	Blinking red	Charging the flash	No
LED indicator	Blinking green	Image is being recorded to memory	No
LED indicator	Solid red	USB communication/transfer in progress	No
LED indicator	Solid green	The ViviCam 3650 is ready to record images (or movies)	Yes *(1)
Self-timer indicator	Blinking red	The self-timer function is activated	No
----	----	Error message	Yes *(3)
----	----	Valid button event	Yes *(1)

- (1) The ViviCam 3650 sounds one beep.
- (3) The ViviCam 3650 sounds three beeps.

LCD Monitor Information

These indicators are displayed when recording still images:

1. Capture mode
2. Image resolution

[2M] 1600X1200

[1.2 M] 1280X960

[0.3 M] 640X480

3. Image quality

[★★] Fine

[★★] Normal

[★] Economy

4. Sharpness

[▲] High

[▲] Medium

[▲] Low

5. ISO speed

(no indication for Auto)
Auto

[ISO 100] 100

[ISO 200] 200

6. Flash mode

[[]] Flash off

[[]] Fill flash (on)

[[]] Automatic flash

[[]] Red-eye reduction

7. Color mode

[[]] Full Color

[[]] Black & White

[[]] Sepia

8. [[SD]] Card indicator

9. Remaining images

10. Battery level

[[]] Fully battery level

[[]] Fairly consumed

[[]] Nearly exhausted

[[]] Virtually no battery power



11. [[]] Self-timer mode

12. White balance
(no indication for auto white balance)

Auto

[[]] Daylight

[[]] Cloudy





[[]] Tungsten

[[]] Fluorescent

13. EV compensation





These indicators are displayed when playing images back:



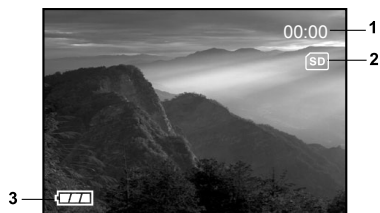
1. Reverse key
2. [SD] Card indicator
3. Forward key
4. [On] Protect indicator
5. Current image/total number of images
6. Battery level
 - [] Fully battery level
 - [] Fairly consumed
 - [] Nearly exhausted
 - [] Virtually no battery power





These indicators are displayed when recording video clips:



1. Movie mode
2. Recording indicator
3. Video counter
4. [SD] Card indicator
5. Battery level
 - [] Fully battery level
 - [] Fairly consumed
 - [] Nearly exhausted
 - [] Virtually no battery power

These indicators are displayed when playing video clips back:



1. Recorded time
2. [SD] Card indicator
3. Battery level
 - [] Fully battery level
 - [] Fairly consumed
 - [] Nearly exhausted
 - [] Virtually no battery power

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PREPARING YOUR VIVICAM 3650

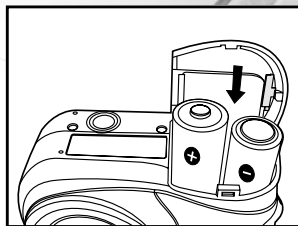
Installing the Batteries (Optional Accessory)

You may use 2 AA size batteries (either Alkaline or Ni-MH) to power your camera.

1. Make sure your ViviCam 3650 is off.
2. Slide the battery/SD card cover.
3. Insert the batteries noting the correct polarity marks (+ or -).
4. Close the battery/SD card cover. Slide into locked position.

Note:

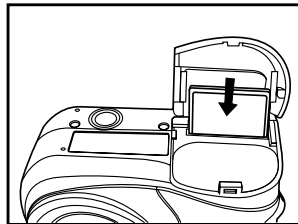
- Never use manganese batteries.
- Never use different types of batteries (together) or mix old and new batteries.
- Avoid using the batteries in extremely cold environments as low temperatures may shorten the battery life and reduce the camera performance.
- Low temperature will influence alkaline battery performance.
- Ni-MH rechargeable batteries are recommended.
- If you won't be using the batteries for an extended period of time, remove them from the camera to prevent the leakage or corrosion.
- New batteries or batteries that have not been used for an extended period of time (batteries that pass the expiry date are exceptions) might affect the number of images that can be captured. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
- You may also use a CR-V3 lithium battery pack.



Loading an SD Memory Card (Optional Accessory)

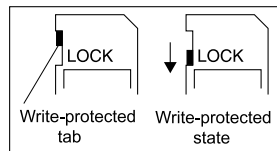
Your camera comes with internal memory, allowing you to store images and video clips in the ViviCam 3650. However, you can expand the memory capacity by using an SD memory card. Optional SD memory cards provide removable, reusable storage for images and video clips.

1. Make sure your ViviCam 3650 is off.
2. Open the SD card/battery cover.
3. Insert the SD memory card.
 - If the card cannot be inserted, check the orientation.
4. Close the SD card/battery cover.



Note:

- To prevent valuable data from being accidentally erased from an SD memory card you can slide the write protect tab (on the side of the SD memory card) to "LOCK".
- To save, edit, or erase data on an SD memory card, you must unlock the card.
- If a memory card is present in the camera; the camera will automatically use the card in preference to internal memory.
- Be sure to format the memory card with this camera before its initial usage.
- It is recommended that you format your memory occasionally to ensure optimal performance.



To remove an SD memory card

1. Make sure your ViviCam 3650 is off.
2. Open the SD card/battery cover.
3. Press lightly on the edge of the memory card and it will eject.

Note:

- Memory cards may become warm during use; observe caution when removing memory cards.
- When a memory card is removed from the camera; the camera will automatically revert to using internal memory.

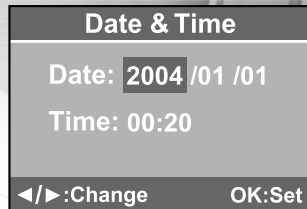
Setting the Date and Time

The Date/Time screen will be presented if/when:

- The ViviCam 3650 is turned on for the first time.
- The ViviCam 3650 is turned on after removing the batteries for a long period of time.

When the date and time setting screen appears, follow these steps to set the correct date and time.

1. Enter the values of the year, month, day and the time by using the ▲ / ▼ / ◀ / ▶ buttons.
 - To increase the value, press the ▲ button.
 - To decrease the value, press the ▼ button.
2. Press the ⌂ button after all fields are set.



Choosing the Language

Follow the steps below to set the OSD (On-Screen Display) language.

1. Select a language that you prefer by using the ▲ / ▼ buttons.
2. Press the ⌂ button to confirm.

Note:

- The language setting will be retained even if the ViviCam 3650 is turned off.

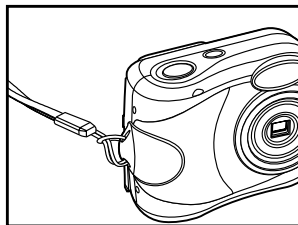


Attaching the Camera Strap

To prevent accidentally dropping your camera, always use the camera strap.

Attach the camera strap as follows:

1. Thread the small loop of the strap through the strap eyelet on the camera.
2. Pull the large loop through the small loop until the strap is firmly secured.



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BASIC FUNCTIONS

Turning the Power On

1. Press and hold the ① button for two seconds to turn on the camera.
 - The LED indicator lights red while the camera is initialized.

Turning the Power Off

Press the ① button again to turn off the camera.




Using the LCD Monitor

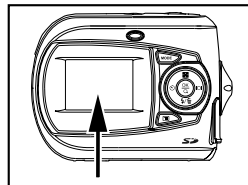
The LCD monitor can help you while capturing images, replay recorded images/video clips, and adjust camera settings.

The mode icons, text and numbers that are displayed on the LCD monitor will vary according to the current settings.

1. Press the ① button to turn on your ViviCam 3650.
2. Compose your image on the LCD monitor.
3. Press the shutter button.




Note:

- In the Capture mode, pressing the  display button will select OSD Off/OSD On.
- The LCD monitor is difficult to see in strong sunlight. This is not a malfunction.




Digital Zoom

Using digital zoom, images appear closer. Whereas digital zoom is a compelling feature, the more an image is enlarged (zoomed), the more pixilated (grainier) the image will appear.

1. Press the  button to turn on your ViviCam 3650.
2. Press the  button to activate the zoom function.
 - The digital zoom choices are 1x (no zoom), 2x, and 4x.
 - To exit digital zoom, press the  button again.
3. Press the shutter button to capture a “zoomed” image.





Note:

- Digital zoom cannot be used in [] Movie mode.

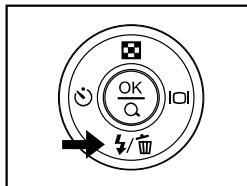
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Using the Flash

The flash is designed to function automatically when lighting conditions warrant the use of flash. You can capture an image using a flash mode suitable to your circumstances.

1. Press the  button to turn on your ViviCam 3650.
2. Press the  button located on the rear side of the camera repeatedly until the desired flash mode icon appears on the LCD monitor.
3. Compose your image and press the shutter button.

The ViviCam 3650 has four flash modes: Off, On (Fill flash), Automatic, Automatic with Red-eye reduction.







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
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

The table below will help to select the appropriate flash mode:

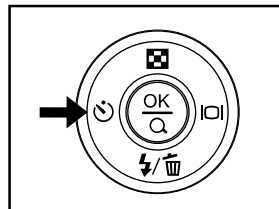
Flash Mode	Description
[] Flash off	The flash will not fire. Select this mode when capturing images in a place where flash photography is prohibited, or when the distance to the subject is beyond the effective range of the flash. (Typically 12 feet)
[] Fill flash (on)	The flash will always fire regardless of the lighting conditions. Select this mode for capturing images with high contrast (backlighting) and deep shadows.
[] Automatic flash	The flash fires automatically according to the ambient lighting conditions. Select this mode for general photography.
[] Red-eye reduction	The flash emits a precursor-flash before the main flash fires. This causes the pupil in the human eye to constrict, reducing the red-eye phenomenon. Select this mode when capturing images of people and animals in low-light conditions.

Self-Timer

By using the  self-timer you can get into the scene when capturing group shots.

Self-timer duration can be set to 5 seconds or 10 seconds. Self-timer mode appears cyclically as [05] --> [10] --> [Display Off]. After the self-timer is set, the shutter automatically releases after 5 seconds or 10 seconds. The self-timer lamp starts blinking relatively slow for the first 2 seconds or the first 7 seconds and then blinking rapidly for the last 3 seconds.

1. Secure the camera to a tripod or place it on a stable surface.
2. Press the  button to turn on your camera.
3. Compose your image.
4. Press the  self-timer button.
5. Press the shutter button.
 - The count down is displayed on the LCD monitor.
 - To cancel the self-timer, press the  button to disrupt the sequence.



Note:

- After each self-timed image is captured, the self-timer is turned OFF.









Setting the Image Resolution and Quality




Resolution and quality settings determine the pixel size (dimension), image file size, and compression ratio for your images. These settings affect the number of images that can be stored in memory, or on an SD memory card. As you get to know the ViviCam 3650, it is recommended that you try each quality and resolution setting to get an appreciation for the effects that these settings will have on your images.

Higher resolution and higher quality images offer the best photographic results but produce large files sizes. Therefore, fewer images will take up more memory space.

High resolution and quality settings are recommended for printed output and situations requiring the finest detail. Lower resolution/quality images take up less memory space and may be quite suitable for sharing images via e-mail, in a report, or on a web page.




To change image resolution or quality settings perform the steps below:

1. Press the  button to turn on your ViviCam 3650.
2. Press the  button to enter the Capture menu and select [Size] or [Quality] by using the  /  button.
3. Set [Size] or [Quality] by pressing the  /  button in the main menu or press the  button to enter the sub-menu, then press the  button to confirm the setting.

Capture Menu	
Size	1600x1200
Quality	Economy
EV	+0.0
White Balance	
 /  : Change	OK: Set


Number of Recordable Images



The frame counter indicates the approximate number of images that can be stored on the internal memory or the SD memory card at the ViviCam 3650's image quality and size settings. The number of recordable images may vary depending on the recorded subject and the capacity of the memory card, or if there are files other than images, or when the recording is made while switching the image quality/resolution.

Resolution	Quality	Compression Ratio	Internal Memory	8MB SD Memory Card	16MB SD Memory Card	32MB SD Memory Card	64MB SD Memory Card	128MB SD Memory Card	256MB SD Memory Card	512MB SD Memory Card
1600 x 1200 	***	8:1	16	25	50	100	200	400	800	1600
	**	12:1	19	31	62	124	248	496	992	1984
	*	16:1	21	35	70	140	280	560	1120	2240
1280 x 960 	***	8:1	21	34	68	136	272	544	1088	2176
	**	12:1	29	47	94	188	376	752	1504	3008
	*	16:1	30	49	98	196	392	784	1568	3136
640 x 480 	***	8:1	58	94	188	376	752	1504	3008	6016
	**	12:1	88	141	282	564	1128	2256	4512	9024
	*	16:1	97	156	312	624	1248	2496	4992	9984

* The above data shows standard test results. The actual capacity varies according to the shooting conditions and conditions.

Recording Video Clips

[] Movie mode allowing you to record silent video clips at a resolution of 320X240 pixels.

1. Press the  button to turn on your camera.
2. Press the MODE button to enter the [] Movie mode.
3. Start recording a video clip by pressing the shutter button.
 - The movie icon, REC , elapsed time, the card indicator, battery level will display on the LCD monitor while recording a video clip.
 - To stop recording, press the shutter button again.



Note:











- In [] Movie mode, resolution/quality and self-timer cannot be set.
- In [] Movie mode, the flash mode is automatically set to [] OFF.
- To may adjust EV or White balance prior to capturing a Video Clip.

IMAGE PLAYBACK


In [] Playback mode you can view your images and video clips. You can even magnify (zoom in on) your images. Playback mode provides a thumbnail image display function that allows you to quickly search for the image that you want. You may view your images in a slideshow.

Single Image Replay

To Play back still images one image at a time.

1. Press the  button to turn on your camera.
2. Press the MODE button twice to enter [] Playback mode.
 - The last recorded image appears on the LCD.
3. View and select your recorded images by using the  /  buttons.
 - To view the previous image, press the  button.
 - To view the next image, press the  button.

Note:

- To exit [] Playback mode, press MODE button.
- If there is no image stored in the internal memory or on the memory card, [No Image] appears on the LCD.



Playback Zoom

While reviewing your images, you may enlarge a selected portion of an image. This magnification capability allows you to view fine details.

1. Press the **ⓘ** button to turn on your camera.
2. Press the **MODE** button twice to enter [**▶**] Playback mode.
 - The last image frame appears on the LCD monitor.
3. Select an image by using the **◀/▶** buttons.
4. Enlarge the image by pressing the **⌕** button.
5. Use the **▲/▼/◀/▶** buttons to select the area to enlarge.
6. To return to the regular display from 4X-enlarged status, press the **⌕** button.









Note:

- Each press of the **⌕** button, the modes switch cyclically:
1X→2X→3X→4X→1X.



Viewing Nine Images at a Time

This function allows you to view nine thumbnail images on the LCD monitor simultaneously so that you can quickly scan for a particular image.

1. Press the  button to turn on your camera.
2. Press the MODE button twice to enter [] Playback mode.
3. Press the  thumbnail button and nine thumbnail images appear on the LCD monitor. (Assuming there are nine or more recorded images in the memory.)
4. Use the  /  /  /  buttons to move the cursor to select the image to be displayed at regular size.
5. Press the  button to display the selected image on the full screen.



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Viewing Video Clips

To view recorded video clips, follow the steps below:

1. Press the **ⓘ** button to turn on your camera.
2. Press the MODE button twice to enter [**▶**] Playback mode.
3. Select the video clip that you want to view by using the **◀/▶** buttons.

Slide Show

The Slide show function enables you to play your images back automatically in sequential order as a slide show. This is a very useful and entertaining feature for reviewing recorded images and for presentations.

1. Press the **ⓘ** button to turn on your camera.
2. Press the MODE button twice to enter [**▶**] Playback mode. Then press the **≡** button to enter the Playback menu.
3. Select [Slide Show] by using **▲/▼** buttons then press the **⊗** button to enter the sub-menu.
4. Set the playback interval by using the **▲** or **▼** buttons and press the **⊗** button to confirm.
 - The slideshow starts displaying your images on the LCD, one by one, at the interval you set.
 - To stop the slideshow display, press the **⊗** button.

Note:

- To exit playback (slide show) you may choose [Off].
- You can adjust the slideshow display interval within the range of 1 to 10 seconds.

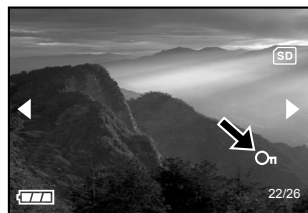


Playback Menu	
Delete	▶
Copy to Card	▶
Slide Show	▶
Protect	▶
OK: Set	

Protecting Images


This feature allows you to prevent images from being accidentally erased.









1. Press the **Ⓚ** button to turn on your camera.
2. Press the **MODE** button twice to enter [**▶**] Playback mode. Then press the **☰** button to enter the Playback menu.
3. Select [Protect] by using the **▲** / **▼** buttons, and press the **Ⓚ** button.
4. You can protect one image or all images at one time by using the **▲** / **▼** buttons, and press the **Ⓚ** button.
 - Protect One: Protect one image
 - Protect All: Protect all images
5. Select [Unlock] or [Lock] by using the **▲** / **▼** buttons.
 - Unlock: Unlock the protected image.
 - Lock: Protect the selected image or all images.
6. Press the **Ⓚ** button again to confirm the setting.

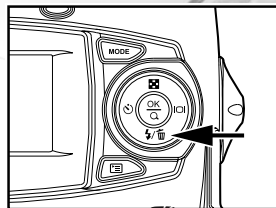


ERASING

Deleting Images and Video Clips

You can delete a captured image or a recorded video clip at a time by pressing the  delete button.

1. Press the  button to turn on your camera.
2. Press the MODE button continuously to enter [] Playback mode.
 - The last image frame appears on the LCD monitor.
3. View and select unwanted image by using the  /  buttons, then press the  delete button.
4. To delete this image, select [OK] by using the  /  buttons and press the  button.
5. Continue the deletion if necessary.
 - If all images are deleted, [No Image] will pop up.
 - To exit the deletion, press again the MODE button again.

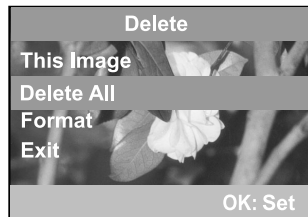


Note:

- Please note that deleted images cannot be recovered. Exercise adequate caution before deleting a file.
- Protected images cannot be deleted with the erase function.

Deleting All Images and Video Clips

1. Press the **Ⓜ** button to turn on your camera.
2. Press twice the MODE button to enter [**▶**] Playback mode. Then press the **Ⓜ** button to enter the Playback menu.
3. Select [Delete] by using the **▲** / **▼** button, and press the **Ⓜ** button.
4. Select [Delete All] by using the **▲** / **▼** button, then press the **Ⓜ** button to confirm the deletion.
5. To delete all images, select [OK] by using the **▲** / **▼** button and press the **Ⓜ** button.
 - If all images are deleted, [No image] will pop up.



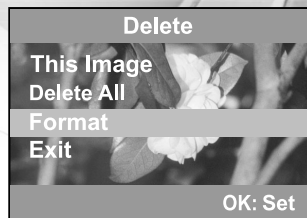
Note:

- Please be aware of that deleted images cannot be recovered. Exercise adequate caution before deleting a file.
- Protected images cannot be deleted with the erase function.
- If a memory card is present; the camera will automatically use the card in preference to internal memory.

Formatting an SD Memory Card or Internal Memory

This utility formats the internal memory (or memory card) and erases all stored images and data.

1. Press the **ⓘ** button to turn on your camera.
2. Press the **MODE** button twice to enter [**▶**] Playback mode. Then press the **≡** button to enter the Playback menu.
3. Select [Delete] by using the **▲** / **▼** buttons, and press the **⊗** button.
4. Select [Format] by using the **▲** / **▼** buttons, and press the **⊗** button.
5. If you want to format the SD memory card or the internal memory choose [OK] by pressing **▲** / **▼** buttons, then press the **⊗** button to confirm.
 - To cancel the action, select [Cancel] instead.
 - [No Image] pops up after the SD memory card or the internal memory is been formatted.



Note:

- Be sure the SD memory card is properly inserted into the camera before formatting it.
- To format images or video clips recorded in the internal memory, be sure to remove your SD memory card first.
- Formatting will erase all information (even unrelated data) from the memory/card.
- Format your memory card occasionally (perhaps weekly) to ensure optimal performance.

TRANSFERRING IMAGES AND VIDEO CLIPS TO YOUR COMPUTER

You can share recorded images and video clips with your family or friends via e-mail or post them on the Web. Before doing those things, you need to connect the camera to your computer by using the USB cable and then transfer the images and video clips.

To transfer images and video clips from the camera to your computer, follow the steps below:

Step 1: Installing the USB driver (only for Windows 98)

Step 2: Connecting the camera to your computer

Step 3: Downloading images and video clips

	System Requirements (Windows)	System Requirements (Macintosh)
CPU	Pentium 400 MHz processor or higher	G3/G4
OS	Windows98SE/Me/2000/XP	OS 9.0 or higher
Memory (System RAM)	128 MB	128 MB
Free Space on Hard Disk	128 MB hard disk space	128 MB hard disk space
Required Devices	CD-ROM Drive, available USB Port	CD-ROM Drive, available USB Port

Step 1: Installing the USB Driver on Windows Computers

The USB driver on the supplied CD-ROM is exclusively for Windows 98. Installing the USB driver on computers running Windows 2000/Me/XP is not necessary.

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive.
The welcome screen appears.
2. Click "Install USB Driver". Follow the on-screen instructions to complete the installation. After the USB driver installation is complete, restart your computer.



Step 2: Connecting the Camera to Your Computer

1. Connect one end of the USB cable to an available USB port on your computer.
2. Connect the other end of the USB cable to the USB connector on the camera.
3. Turn the camera on. Your computers operating system will recognize the camera.
4. From the Windows desktop double click on "My Computer"
5. Look for a new "removable disk" icon. This "removable disk" is actually the memory (or memory card) in your camera. Typically, the camera will be assigned drive letter "e" or higher.
6. Double click on the removable disk and locate the DCIM folder.
7. Double click on the DCIM folder to open it to find more folders such as "100CAMEA"
8. Your recorded images and video clips will be inside these folders
9. Copy & Paste or Drag-N-Drop image and video files to a folder on your computer

Mac users:

double-click the "unlabeled" disk drive icon on our desktop. iPhoto may automatically launch. The volume label will vary depending upon whether you use internal camera memory, or a memory card.

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Step 3: Downloading Recorded Images and Video Clips

When the camera is turned on and connected to your computer, it is considered to be a disk drive, just like a floppy disk or CD. You can download (transfer) images by copying them from the “removable disk” (“untitled” disk on a Macintosh) to your computer hard driver as described in the prior section.

For Computers Running Windows

Open the “removable disk” and subsequent folders by double clicking on them. Double click on the folder . Your images are inside these folder(s). Select the images that you want, then choose “Copy” from the “Edit” menu. Open the destination location (folder) and choose “Paste” from the “Edit” menu. You may also drag and drop image files from the camera to a desired location.

For Computers Running Mac OS and Desktop/LX

Open the “untitled” disk window and the hard disk or the destination location. Drag and drop from the camera disk to the desired destination.

Note:

- Memory card users may prefer to use a memory card reader (highly recommended). Memory card readers offer advantages in terms of convenience, speed, and cost-savings. While connected to your computer the batteries in your camera will continue to be used. A card reader, which requires no batteries and uses USB power from your computer, will save considerably on batteries.

INSTALLING PHOTOSUITE

PhotoSuite is a very user-friendly image-editing program. With PhotoSuite, you can retouch, compose and organize your images. It contains a variety of templates, such as photo frames, birthday cards, calendars and more. Get your images ready and go explore this amazing program.

To Install PhotoSuite

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive.
The welcome screen appears.
2. Click "Install PhotoSuite". Follow the on-screen instructions to complete the installation.



Note:

- For information on how to use PhotoSuite to edit and retouch your recorded images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoSuite while logged in as a user with an "Administrator" account.
- PhotoSuite is not supported on the Mac. iPhoto or iPhoto2 (not included with the camera) is recommended.

INSTALLING PHOTOVISTA

PhotoVista is an easy-to-use program that lets you create spectacular 360° panoramic images in a snap. When you view these panoramas, you can get the experience of being totally immersed in a realistic environment. PhotoVista's powerful engine quickly and automatically stitches images together, and its intuitive interface will let even a novice get great results in minutes.

To Install PhotoVista

1. Insert the CD-ROM packaged with the camera into the CD-ROM drive.
The welcome screen appears.
2. Click "Install PhotoVista". Follow the on-screen instructions to complete the installation.

Note:

- For information on how to use PhotoVista to create spectacular 360° panoramic images, please refer to its online help.
- For Windows 2000/XP users, make sure to install and use the PhotoVista while logged in as a user with an Administrator account.
- For Windows XP users which OS version does not include Service Pack 1 or higher, be sure to link to http://www.java.com/en/download/windows_automatic.jsp first and download the Java Virtual Machine installation. For more detail information about Java, please refer to its on-line help at <http://java.sun.com/getjava/help.html>. After java software installation, you can start to install iSee Media Photovista Panorama. Hereunder is iSee Media Photovista Panorama system requirements and recommendations:
Windows 95/ Windows 98/ Windows NT 4 (Service Pack 3 or higher)
Windows 2000*/ Windows Me*/ Windows XP* (Service Pack 1 or higher)
- PhotoVista is not supported on the Mac.



INSTALLING ACROBAT READER

The CD-ROM includes a PDF (portable document format) copy of the user's manual. To view a PDF you must have Acrobat Reader installed in your computer. Acrobat Reader is included on the camera CD ROM. Using Acrobat Reader, you can read the user's manual and print sections of interest.

1. Insert the CD-ROM that came with the camera into the CD-ROM drive.
The welcome screen appears.
2. Click "Install Acrobat Reader".
Follow the on-screen instructions to complete the installation.



USER MANUAL

A copy of the user manual is provided on the CD-ROM in PDF format. It is a backup copy of the printed manual. If you misplace the printed guide, you may print another copy from the CD-ROM. The only requirement for viewing the User Manual on the CD-ROM is that you have Acrobat Reader (Adobe Reader) installed on your computer. Updates to this manual, and versions in other languages may be found on the Vivitar website (www.vivitar.com).









1. Insert the CD-ROM that came with the camera into the CD-ROM drive.
The welcome screen appears.
2. Click "Install User's Manual". Follow the on-screen instructions to complete the installation.
Alternatively, browse the CD-ROM to find the PDF file.



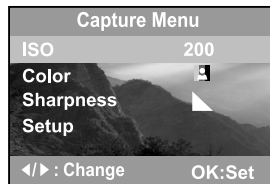
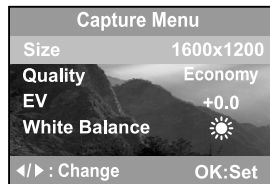
LIST OF MENU OPTIONS

Capture Menu

In the Capture menu, you can specify camera settings you would like to use such as resolution, image quality, EV compensation, white balance, ISO, color mode, and sharpness.

1. Press the  button to turn on your camera.
2. Press the  button and then scroll through the options by using the  /  buttons. You may change the settings by pressing the  /  buttons in the main menu or press the  button to enter the sub-menu and choose the setting. After the setting is set, press the  button to confirm.

Capture menu items: Size, Quality, EV, White Balance, ISO, Color, Sharpness, and Setup.



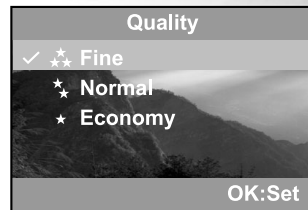
Size

Refer to "Setting the Image Resolution and Quality" in BASIC FUNCTIONS.



Quality



Refer to "Setting the Image Resolution and Quality" in BASIC FUNCTIONS.

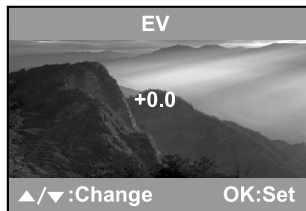


EV

Your ViviCam 3650 adjusts the exposure each scene automatically. However, when the subject is too dark or too bright, you can adjust the exposure manually. This is called EV compensation.

The EV compensation of your camera can be adjusted from [-1.5 EV] to [+1.5 EV] (in 0.3 EV steps).

To adjust EV, press the ◀/▶ buttons in the main menu or press the  button to enter the sub-menu and choose the setting. After the adjustment is set, press the  button to confirm.



Effective Subjects and Set Values

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Positive (+) Compensation

- Copying of printed text (black characters on white paper)
- Backlit portraits
- Very bright scenes (such as snowfields) and highly reflective subjects
- Shots made up predominantly of sky

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Negative (-) Compensation

- Spot lighted subjects, particularly against dark backgrounds
- Imaging of printed text (white characters on black paper)
- Scenes with low reflectivity, such as shots of green or dark foliage

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White Balance

When the brightness and nature (source) of the light changes, our eyes adapt to the difference so that the white object remains white. Digital still cameras, also see a white object as white by averaging the light around the subject.

The ViviCam 3650 determines the white balance by averaging the various kinds of light that enters the lens. You may specify the white balance when capturing images under specific lighting conditions (Auto, Daylight, Cloudy, Tungsten and Fluorescent).

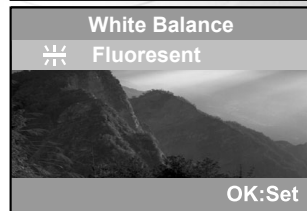
[Auto]: automatically adjusts the white balance.

[☀ Daylight]: for recording outdoors on a bright day.

[☁ Cloudy]: for recording on an overcast day in shade, at twilight.

[💡 Tungsten]: for recording under tungsten lighting conditions.

[⚡ Fluorescent]: for recording under fluorescent lighting conditions.



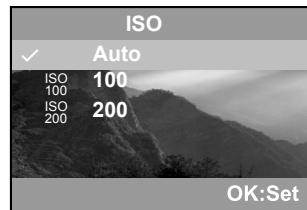
ISO

Select the photographic ISO to be used for image capture. The higher the ISO sensitivity value, the greater sensitivity, but the greater the noise. With a higher sensitivity selected, brighter images can be captured with less light.

Auto adjustment

[ISO_{100}]: Sensitivity equivalent to ISO100

[ISO_{200}]: Sensitivity equivalent to ISO200



Color Mode

When capturing an image, the ViviCam 3650 offers three types of color (Full color/ Black & White/ Sepia) for you to match as your wish. Your images will demonstrate different impression by choosing different types of color.

[Full Color]: Bright colors (24 bit RGB)

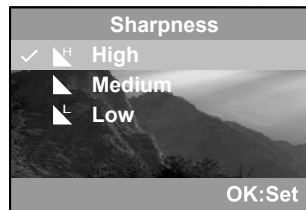
[Black & White]: Monochrome (grayscale)

[Sepia]: Sepia tones



Sharpness

Your ViviCam 3650 can automatically emphasize the borders between light and dark areas of the image. This will make the image's edges look sharper. In some scenes you may prefer sharper edge detail. In other scenes you may prefer softer edge detail.



Setup

Refer to "Setup Menu" in LIST OF MENU OPTIONS.

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Playback Menu

Using the Playback menu you can create an on-camera slide show. You may also delete images, and format your SD memory card or the internal memory.

1. Press **ⓘ** button to turn the camera on.
2. Press **MODE** button twice to enter [**▶**] Playback mode.
Then press the **⌂** button to enter Playback menu.
Scroll through the options by using the **▲** / **▼** buttons.
3. To enter the sub-menu, press the **⊕** button. After settings are set, press again the **⊕** button to confirm.

Playback menu items: Delete, Copy to Card, Slide Show, Protect, and Setup.

Delete

Refer to "Deleting Images and Video Clips" in ERASING.

Copy to Card

This feature allows you to copy your images/video clips from the camera's memory. This functions is enabled when the SD memory card is loaded and the internal memory contains images/video clips.

Slide Show

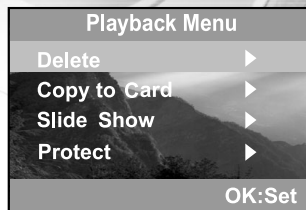
Refer to "Slide Show" in IMAGE PLAYBACK.

Protect

Refer to "Protecting Images" in IMAGE PLAYBACK.

Setup

Refer to "Setup Menu" in LIST OF MENU OPTIONS.



Video Clip Menu

Use the Video Clip menu you can adjust EV compensation, white balance to record video clips with your preferences.

Video Clip menu items: EV, White Balance and Setup.

EV

Refer to "Capture Menu" in LIST OF MENU OPTIONS.

White Balance

Refer to "Capture Menu" in LIST OF MENU OPTIONS.

Setup

Refer to "Setup Menu" in LIST OF MENU OPTIONS.

Video Clip Menu	
EV	+0.0
White Balance	Auto
Setup	
◀/▶ Change	OK: Set

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Setup Menu

You can select preferences for the camera settings under Setup. Navigate the options you wish to configure by using the ▲ / ▼ button.

Setup menu items: Date & Time, Beeper, Language, Power off time, Light Frequency, Set to default, and System Infor..

Setup	
Date & Time	▶
Beeper	Off
Language	English
Power off time	3 min
OK:Set	

Setup	
Light Frequency	60Hz
Set to default	▶
System Infor.	▶
◀/▶ Change	OK:Set

Beeper	
✓ Off	
On	
OK: Set	

Date & Time

Refer to "Setting the Date and Time"

Beeper

Specify whether or not beeps are to be generated when buttons are pressed.

[Off]: Beeps are not generated

[On]: Beeps are generated

Language

Specify OSD language menus and messages are to be displayed on the LCD monitor.

- The provided languages are [English], [Italiano], [Español], [Français], [Deutsch], [日本語], [繁體中文] and [简体中文]

Power off time

If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful to reduce battery consumption.

[3 min], [5 min], [10 min], [Cancel]

Power off time
✓ 3 min
5 min
10 min
Cancel
OK: Set

Light Frequency

Set the frequency of the sensor to match the frequency of your local lighting standard.

[60Hz],[50Hz]

Light Frequency
✓ 60 Hz
50 Hz
OK: Set

Set to default

This function will restore all the parameters to the factory-default settings.

[Yes]: Reset to default settings
[No]: Remain the current settings

Set to default
Yes
No
OK: Set

System Infor.

Displays the firmware version of this camera.

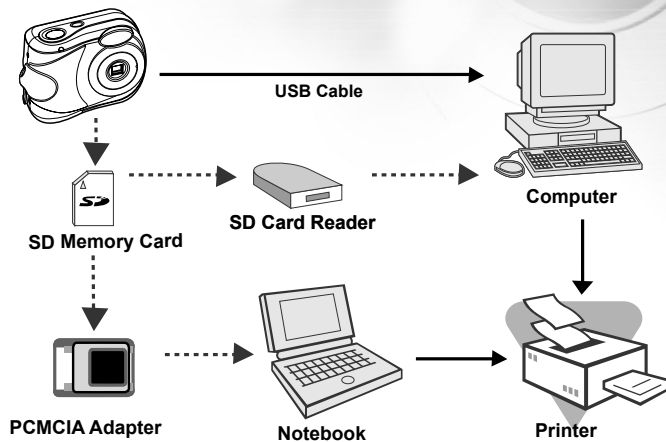
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CONNECTING YOUR VIVICAM 3650 TO OTHER DEVICES



VIVICAM 3650 SPECIFICATIONS


Item	Description
Image sensor effective pixels	2.0 Million
Image resolution	Still image: 1600 x 1200 1280 x 960 640 x 480 Video clip: 320 x 240
Image quality	Fine Normal Economy
Internal memory	8MB (approximately 6 MB available for image storage);
External Memory	Secure Digital (SD) memory card (optional, up to 512MB capacity)
Lens	Focal length: 7.7mm Range of focusing: 3 feet to infinity F-number: f/3.0
LCD monitor	1.4" color TFT LCD
Self-timer	5-second delay 10-second delay
Zoom	Digital: Capture mode: 4X/ Playback mode: 4X
Exposure compensation	Automatic; Manual: +/-1.5 EV (in 0.3EV step)

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Item	Description
White balance	Auto; Manual: Daylight, Cloudy, Tungsten, Fluorescent
File format	JPEG, AVI
Interface	USB connector
Power	2 x AA Alkaline batteries (optional), 2 x AA Ni-MH batteries (optional), One CR-V3 Lithium battery pack (not included).
Tripod socket	Yes
Dimensions	3.3 x 2.6 x 1.2 in/85 x 65 x 30mm (L x W x H)
Weight	Approximately 4.2 ounces (120g) (without batteries and the SD memory card)

* Design and specifications are subject to change without notice.